SEDIMENT BASIN DESIGN DATA SHEET (SBD-034D) - Item #12.1

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APPLICANT	4		tion/Permit No.	
BASIN	NPDES	VA State Plane	VA State Plane	
NO.	No.	Northing	Easting	
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GENERAL INFORMATION		
Hazard Classification		
Total Drainage Area (acres)	Design Flow (cfs)	
Total Disturbed Drainage Area (acres)	Design Storm Event (year/hour)	
Total Disturbed Area to be Treated by		
Basin (acres)		
Required Basin Volume ¹ (ac-ft)	Required Sediment Volume ² (ac-ft)	
Basin Volume Provided (ac-ft)	Sediment Volume Provided (ac-ft)	

		BASIN (GEOMETRY		
	Bottom	Sediment Volume Provided	Basin Volume Provided	Emergency Spillway	Тор
Elevation (ft.)					
Area (ft5)					

	PRINCIP	PAL SPILLWAY (if applicable)	
	Pipe Length	Pipe Inlet Elevation	Slope %
Pipe Diameter (in.)	(ft.)	(ft.)	
	Height of	Top of Riser	Hp ⁴ (ft.)
Riser Diameter (in.)	Riser ³ (ft.)	Elevation (ft.)	
		Type of Trash Rack & Anti-	
Type of Base		vortex device	

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^{1 (0.125} X disturbed area in acres)

² (0.075 X disturbed area in acres)

³ Base to top of riser

⁴ Height of water in pool (head) above spillway

Hp ⁴ (ft.)	Bottom Width (ft.)		Side Slopes (H:V)
Design Velocity (fps)		Type of Lining	
		EXIT CHANNE	L (if applicable)
Slope (%)	Bottom Widt (ft.)	Side Slopes (H:V)
Flow Dept	h (ft.)	Freeboard (ft	Total Depth Exit Channel (ft.)
Design Velocity (fps)		Type of Linin	g
		EMBANKMEN'	Γ (if applicable)
Top of Emba Elevation		Constructed Top of Embankment Elevation ⁶ (ft.)	

 $^{^{5}\} Top\ of\ Embankment\ Elevation = Emergency\ Spillway\ Elevation + Hp + Freeboard\ (1\ ft.\ minimum)$

 $^{^{6}\} Constructed\ Top\ of\ Embankment = Top\ of\ Embankment\ Elevation\ +\ allowance\ for\ settlement\ (5\%\ minimum)$